

RF Equipment Protection High Power

Novaris high power surge protectors suit applications including MF, HF and VHF transmitters to 70kW. The spark gap arrester has an optical arc sensor which may be used to momentarily interrupt the transmitter.

	Novaris		CEIA - 412 - 1 Product Series Connector Size	Options
			CEIA-412	
	Electrical Specifications			
	Connection type		Series	
	Modes of protection		Signal-Earth	
	Maximum discharge current (8/20µs)	I _{max}	100kA	
	Power rating		>70kW limited only by coaxial cable	
	Surge element		Spark gap, gap setting: 2mm / 10kW	
	Spark over voltage		2.6kV for 2mm gap	
	Characteristic impednce		50W	
	Overstressed fault mode		Mode 3 (open circuit)	
	Insertion loss		<0.1dB to 500MHz	
			<0.2db to 1GHz (gap setting: 1mm)	
	Return loss		>26dB to 500MHz	
			>20dB to 1GHz (gap setting: 1mm)	
	Arc sensor		Optical detector utilising photodiode, feeding transmitter interface	
			to provide momentary shutdown	
	Power requirements		Arc sensor: 12VDC @ 35mA	
	Transmission medium		Arc detector fed to transmitter via optic fibre.	
			Alternate metallic cable available.	
	Mechanical Specifications			
	Operating temperature / humidity		-40 to +85°C / 5 to 95% non-condensing	
	Connection type		4 1/2" EIA	
	Mounting		Bulkhead / flange	
Standards Compliance	Environmental		IP 55	
ITU-T K.44	Enclosure		Brass and copper	
AS/NZS 1768	Options			
IEEE C62.41	Spark gap only, no TX controller		Standard	
IEC 61643-21	1RU 19" rack, one TX controller only		1	
UL497B	3RU 19" rack, up to 14 TX controllers		n*	
	* Denotes number of TX controllers			

* Denotes number of TX controllers